

MEASUREMENTS OF THE SOLAR CONSTANT OF RADIATION AT CALAMA, CHILE.

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In continuation of preceding publications, I give in the following table the results obtained at Calama, Chile, in May, 1920, for the solar constant of radiation. The reader is referred to this REVIEW for February,

August, and September, 1919, for statements of the arrangement and meaning of the table.

Date.	Solar const.	Method.	Grade	Trans- mission coeff- cient at 0.5 micron.	Humidity.			Remarks.
					ρ/ρ_{SC}	V. P.	Rel. hum.	
1920 A. M. May 1	cal. 1.933	M _{1-s}	S-....	0.859	0.610	cm. 0.41	Per cent. 25	Cirri all over sky pre- vented earlier ob- servations.
2	1.950	M ₂	S.....	.870	.608	.20	21	Wind carrying dust at times. Possibly some Chuquis smoke.
3	1.947 1.948 1.983 1.955 1.962 1.950 1.961 1.953	M ₂ W. M..... E ₀ M ₂ M ₂ M _{1-s} W. M..... M ₂	S-.... VG+ S.....	.853 .865	.600 .580	.18 .17	18 14	
4	1.961 1.954 1.957 1.938	M ₂ W. M..... M ₂ M ₂	S..... U+..	.861 .872	.644 .578	.19 .17	17 19	Smoke from Chuqui near sun.
5	1.932	M ₂	U+..	.872	.578	.17	19	Cirri in west. Some smoke from Chuqui.
6	1.958 1.949 1.945	M ₂ W. M..... M ₂	G+..	.866	.549	.22	22	Some cirri in north- west. Probably some Chuquis smoke.
7	1.964 1.937 1.952	M ₂ M _{1-s} W. M.....						
P. M. 8	1.950	M ₂	S-....	.872	.615	.32	19	Some haze and dust. Chuquis smoke near sun.
9	1.961 1.957	M _{2-s} W. M.....						
A. M. 9	1.900	M _{2-s}	S-....	.864	.541	.22	22	Some scattered cirri in southwest rap- idly vanishing.
10	1.932 1.921 1.968	M ₂ W. M..... M ₂	U+..	.863	.533	.23	21	Smoke from Chuqui near sun.
11	1.907 1.938 1.969	M _{1-s} W. M..... E ₀	E-..	.870	.688	.15	15	Gusts of wind carried some dust at times during early obser- vations.
12	1.972 1.970 1.961 1.968 1.950	M ₂ M ₂ M _{1-s} W. M..... M ₂	S.....	.870	.612	.16	13	Smoke from Chuqui below sun in M ₂ .
13	1.950 1.965 1.952 1.942	M ₂ M _{1-s} W. M..... M _{2-s}	S-..	.863	.631	.12	10	Cirri low in east mov- ing rapidly away prevented M ₂ 9:00 Cirri appearing in west. M _{1-s} pre- vented by smoke coming from west.
14	1.961 1.955 1.974	M _{2-s} W. M..... E ₀	P+	.823	.488	.18	19	Cirri in west and south.
15	1.920	M _{2-s}						Chuqui smoke in east mostly below sun, apparently in early bolograph.
16	1.952 1.937 1.960 1.956 1.955 1.957 1.945	M ₂ W. M..... M ₂ M ₂ M _{2-s} W. M..... M ₂	S.....	.869	.522	.23	25	
17		M ₂	U+	.866	.668	.15	19	Chuqui smoke pre- vented other ob- servations.